Superfund Site Strategy Recommendation Region 6	
Site Name: FANSTEEL METALS Site Number: OKD007221831	
Alias Site Name(s):	
Address: 10 TAHTALUM FLACE	
City/County or Parish/State/Zip: MUSKOGEE / MUSKOGEE / OKLAHOMA 74401	
Recommendation:	
1. No further remedial action planned under Superfund.	
X 2. Further pre-remedial investigative action needed under Superfund:	
PAPriority: HighMedium_X	
Other To be performed by FIT	
3. Action may be appropriate under other authority: RCRA NPDES \times SPCC 404 TSCA UIC SMCRA State \times Other	
Discussion: Fansteel Metal Site is an active producer of refractory metals and one of the my three such industry in the free world. The site's activity includes processing radioactive ores to extract Uranium and Thorium to produce tantalum and diobium pentoxide. Frimary solvents or chemicals used in the extraction are who fluoric acid, Sulfuric acid, methyl isobutyl Ketone and anhydrous immonia. Most of the resultant by product is waste slurry containing Low les adioactivity which is disposed onsite into ponds. These ponds according to the lata are not all lined. The lined ponds are said to be inefficient. Sampling results revealed organic, inorganic and radioactive contamination asite. Offsite contamination includes organic and inorganics: High readings of alpha and gross beta particles were detected in the soil samples. Heavy etals analysis showed exceedance of the primary drinking water standards, it is bromium and also exceeded the background soil sample by a factor of 10-100 imas. Some of the toxic metals were arsenic, beryllium, calaium and nickel. Froctor 1254 (128) and ammonia were also detected at high levels. The date so revealed 12 unedentified compounds of total concentration of 83,000 ppresent also poses a complex problem due to the nature of the contaminants.	vel n
Recommended By: FETER A. SAM Date: 7/18/89	

The site location is critical due to the sensitive environs within its corridors. The use of water in the area for irrigation is threaten, human health onsite is threaten by the alpha and beta radiation on a short term bases. On the other hand radiation maybe a threat to the closest residential dwellings. In summary it appears that this site has the potential to score high enough using the new HRS to be considered as an HPL candidate, because of the potential for groundwater/drinking water well contamination and the large number of targets is the Arkansas River. Therefore, further investigative action under superfund is recommended.